Peter Rudolf Seidl

List of Publications by Year
in descending order

49 papers	820 citations	623734 14 h-index	526287 27 g-index

54 all docs	54 docs citations	54 times ranked	1012 citing authors

#	Article	IF	Citations
1	Pretreatment processes for lignocellulosic biomass conversion to biofuels and bioproducts. Current Opinion in Green and Sustainable Chemistry, 2016, 2, 48-53.	5.9	133
2	Density Functional Theory Investigation of the Contributions of Ï€â€“Ï€ Stacking and Hydrogen-Bonding Interactions to the Aggregation of Model Asphaltene Compounds. Energy & Fuels, 2012, 26, 2727-2735.	5.1	113
3	Lubricant viscosity and viscosity improver additive effects on diesel fuel economy. Tribology International, 2010, 43, 2298-2302.	5.9	75
4	Modeling Solvent Effects on Asphaltene Dimersâ€. Energy & Fuels, 2005, 19, 1245-1251.	5.1	56
5	Performance of Solvent Mixtures for Non-aqueous Extraction of Alberta Oil Sands. Energy & Fuels, 2015, 29, 2261-2267.	5.1	46
6	Eco-friendly corrosion inhibitors based on Cashew nut shell liquid (CNSL) for acidizing fluids. Journal of Molecular Liquids, 2019, 284, 393-404.	4.9	37
7	Steric effects on carbon-13 NMR shifts: carbon-hydrogen bond polarization contributions. Magnetic Resonance in Chemistry, 1998, 36, 261-266.	1.9	35
8	The influence of different minerals on the mechanical resistance of asphalt mixtures. Journal of Petroleum Science and Engineering, 2009, 65, 171-174.	4.2	30
9	Conformational search and dimerization study of average structures of asphaltenes. Computational and Theoretical Chemistry, 2005, 755, 1-8.	1.5	28
10	The Î³- and the Î´-effects in13C NMR spectroscopy in terms of nuclear chemical shielding (NCS) analysis. Journal of Physical Organic Chemistry, 2004, 17, 680-685.	1.9	26
11	Carbon-13 NMR spectra of tetracyclododecanes: Evidence for upfield Î´ and É› steric effects. Magnetic Resonance in Chemistry, 1993, 31, 241-246.	1.9	20
12	Application of carbon-13 nuclear magnetic resonance to the germination of soybean seeds in vivo. Journal of Agricultural and Food Chemistry, 1983, 31, 459-461.	5.2	18
13	The effect of 2-exo and endo substituents on the geometry of norbornane. Computational and Theoretical Chemistry, 1987, 152, 281-291.	1.5	16
14	Conformational effects on NMR chemical shifts of half-cage alcohols calculated by GIAO-DFT. Computational and Theoretical Chemistry, 2002, 579, 101-107.	1.5	15
15	Ab initio charge distributions in half-cage compounds. Computational and Theoretical Chemistry, 1990, 204, 183-192.	1.5	13
16	Synergistic effect of propargyl alcohol, octadecylamine, and 1,3-dibutyl thiourea for API P110 alloys in acetic and formic acidic solutions used in oil well acidizing. Journal of Molecular Liquids, 2018, 256, 548-557.	4.9	11
17	Steric and electronic contributions to conformational effects on chemical shifts of acyclic alcohols. Computational and Theoretical Chemistry, 2002, 580, 75-83.	1.5	10
18	Hyperconjugation effects of hydroxyl and amine groups on chemical shifts of neighboring carbon nuclei. International Journal of Quantum Chemistry, 2003, 95, 322-328.	2.0	9

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19	Docking of anti-HIV-1 oxoquinoline-acylhydrazone derivatives as potential HSV-1 DNA polymerase inhibitors. Journal of Molecular Structure, 2014, 1074, 263-270.	3.6	9
20	NMR chemical shifts as probes for steric effects in mono- and disubstituted adamantanes. Journal of Physical Organic Chemistry, 2002, 15, 801-807.	1.9	8
21	Effects of temperature, concentration and synergism on green Schiff bases synthesized from vanillin in applications as corrosion inhibitors for carbon steel in well stimulation. Journal of Petroleum Science and Engineering, 2022, 213, 110401.	4.2	8
22	An ab initio investigation of the effects of 2-exo and endo substituents on norbornane. Chemical Physics Letters, 1988, 147, 373-376.	2.6	7
23	Ab initio and density functional study of the 5-pentacyclo[6.2.1.13,6.02,7.04,10]dodecyl cation. A symmetrical Î¼-hydride bridged carbocation. Chemical Physics Letters, 2001, 345, 189-194.	2.6	7
24	Through space hyperconjugation in half-cage alcohols. Computational and Theoretical Chemistry, 2004, 677, 51-54.	1.5	7
25	Ab initio charge distribution in tetracyclic norbornyl derivatives. Chemical Physics Letters, 1990, 175, 182-186.	2.6	6
26	Evidence for the Formation of Glucose (Not Sucrose) in the Metabolism of Germinating Sunflower Seeds. Journal of Agricultural and Food Chemistry, 1994, 42, 882-885.	5.2	6
27	Molecular dynamics simulations of a nucleoside analogue of 1,4-dihydro-4-oxoquinoline-3-carboxylic acid synthesized as a potential antiviral agent: Conformational studies in vacuum and in water. Computational and Theoretical Chemistry, 2006, 778, 97-103.	1.5	6
28	Density Functional Theory Study of the Effects of Substituents on the Carbon-13 Nuclear Magnetic Resonance Chemical Shifts of Asphaltene Model Compounds. Energy & Fuels, 2015, 29, 2843-2852.	5.1	6
29	Storage time evaluation of a residue from wine industry as a microencapsulated corrosion inhibitor for 1M HCl. Materials Chemistry and Physics, 2020, 256, 123739.	4.0	6
30	The effects of lone pairs on charge distribution in the tetracyclic norbornyl derivatives. Chemical Physics Letters, 1993, 202, 278-283.	2.6	5
31	Ab initio studies of hyperconjugation effects on charge distribution in tetracyclododecane alcohols. Chemical Physics Letters, 1995, 237, 33-38.	2.6	5
32	Ab initio study of hyperconjugation effects on charge distribution in representative polycyclic alcohols. Chemical Physics Letters, 1996, 248, 158-164.	2.6	5
33	CÃ¢nfora: um bom modelo para ilustrar tÃ©cnicas de RMN. Quimica Nova, 2007, 30, 2053-2056.	0.3	4
34	A computational study on the steric effects of naphthenic moieties on aggregation interactions of nonconventional petroleum constituents. Journal of Physical Organic Chemistry, 2015, 28, 234-241.	1.9	4
35	Identification of minor products from oxymercuration-demercuration of bullvalene: substituent effects on mechanisms of free-radical rearrangements. Journal of Organic Chemistry, 1982, 47, 73-77.	3.2	3
36	Conformational analysis of a nucleoside of 1,4-dihydro-4-oxoquinoline-3-carboxylic acid analogue. Journal of Molecular Structure, 2005, 748, 137-141.	3.6	3

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37	NMR investigation of steric effects in alkyl- and haloadamantanes. Journal of Physical Organic Chemistry, 2005, 18, 162-166.	1.9	3
38	Conformational analysis of a quinolonic ribonucleoside with anti-HSV-1 activity. Journal of Molecular Structure, 2011, 985, 1-4.	3.6	3
39	Prediction of Kinematic Viscosity and Density of Biodiesel Using Electrospray Ionization Mass Spectrometry by Multivariate Statistical Models. Energy & Fuels, 2016, 30, 7284-7290.	5.1	3
40	Principal component analysis of the13C NMR shifts of norbornyl derivatives. IIâ€"tetracyclic dodecane derivatives. Magnetic Resonance in Chemistry, 1993, 31, 247-253.	1.9	2
41	Internal rotation processes inendo-cis-N-(o-tolyl)bicyclo[2.2.1]heptene-2,3-dicarboximide and its oxidation products. Magnetic Resonance in Chemistry, 1999, 37, 317-321.	1.9	2
42	A theoretical investigation of steric effects on 1H chemical shifts of camphor and norcamphor derivatives. Computational and Theoretical Chemistry, 2006, 767, 29-36.	1.5	2
43	Molecular modeling studies of 1,4-dihydro-4-oxoquinoline ribonucleosides with anti-HSV-1 activity. Journal of Molecular Structure, 2011, 1006, 536-541.	3.6	2
44	An Introductory Course in Industrial Chemistry for Freshmen. Journal of Chemical Education, 2001, 78, 218.	2.3	1
45	Comments on the application of the Triple Helix of innovation to developing countries. Science and Public Policy, 1999, 26, 137-139.	2.4	1
46	Amazon Biodiversity: A Renewable Natural Resource?. ACS Symposium Series, 1995, , 2-7.	0.5	0
47	Structures and Stabilities of B2H2n2+ Dications (n = 1â€"4). ChemInform, 2003, 34, no.	0.0	0
48	O papel governamental como ator essencial para a P&D de medicamentos: um estudo de casos. Quimica Nova, 2008, 31, 1912-1917.	0.3	0
49	A evoluÃ§Ã£o da quÃmica brasileira. Quimica Nova, 1997, 20, 44-48.	0.3	0